

Titles of most frequently occurring classifications of patents returned
from a search of 10551224 on Nov 27, 2007

- 5 704/205 (1 OR, 4 XR)
Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
704/200 . SPEECH SIGNAL PROCESSING
704/201 .. For storage or transmission
704/205 ... Frequency
- 4 704/270 (0 OR, 4 XR)
Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
704/200 . SPEECH SIGNAL PROCESSING
704/270 .. Application
- 4 704/272 (3 OR, 1 XR)
Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
704/200 . SPEECH SIGNAL PROCESSING
704/270 .. Application
704/272 ... Novelty item
- 4 704/208 (2 OR, 2 XR)
Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
704/200 . SPEECH SIGNAL PROCESSING
704/201 .. For storage or transmission
704/205 ... Frequency
704/206 Specialized information
704/207 Pitch
704/208 Voiced or unvoiced
- 3 379/202.01 (0 OR, 3 XR)
Class 379 TELEPHONIC COMMUNICATIONS
379/201.01 . SPECIAL SERVICES
379/202.01 .. Conferencing
- 3 370/477 (1 OR, 2 XR)
Class 370 MULTIPLEX COMMUNICATIONS
370/464 . COMMUNICATION TECHNIQUES FOR INFORMATION CARRIED IN PLURAL
CHANNELS
370/477 .. Transmission bandwidth conservation
- 3 704/206 (2 OR, 1 XR)
Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
704/200 . SPEECH SIGNAL PROCESSING
704/201 .. For storage or transmission
704/205 ... Frequency
704/206 Specialized information
- 3 704/E19.01 (0 OR, 3 XR)
Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
704/E19.001 . SPEECH OR AUDIO SIGNAL ANALYSIS- SYNTHESIS TECHNIQUES FOR
REDUNDANCY REDUCTION, E. G., IN VOCODERS, ETC.; CODING OR DECODING OF SPEECH OR AUDIO
SIGNALS; COMPRESSION OR EXPANSION OF SPEECH OR AUDIO SIGNALS, E. G., SOURCE-FILTER
MODELS, PSYCHOACOUSTIC ANALYSIS, ETC. (EPO)
704/E19.01 .. Using spectral analysis, e.g., transform vocoders, subband
vocoders, perceptual audio coders, psychoacoustically based lossy encoding, etc.,
e.g., MPEG audio, Dolby AC-3, etc. (EPO)

3 704/ E21.002 (0 OR, 3 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/ DECOMPRESSION
 704/ E21.001 MODIFICATION OF AT LEAST ONE CHARACTERISTIC OF SPEECH WAVES
 (EPO)
 704/ E21.002 ...Speech enhancement, e.g., noise reduction, echo
 cancellation, etc. (EPO)

3 704/ E17.002 (0 OR, 3 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/ DECOMPRESSION
 704/ E17.001 SPEAKER IDENTIFICATION OR VERIFICATION (EPO)
 704/ E17.002 ...Recognition of special voice characteristics, e.g., for
 use in a lie detector; recognition of animal voices, etc. (EPO)

2 704/ 207 (2 OR, 0 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/ DECOMPRESSION
 704/ 200 SPEECH SIGNAL PROCESSING
 704/ 201 ...For storage or transmission
 704/ 205 ...Frequency
 704/ 206Specialized information
 704/ 207Pitch

2 370/ 267 (2 OR, 0 XR)
 Class 370 MULTIPLEX COMMUNICATIONS
 370/ 259 SPECIAL SERVICES
 370/ 260 ...Conferencing
 370/ 263 ...Conferee signals combined or distributed via time
 channels
 370/ 266Using summation of conferee signals
 370/ 267Digital summation

2 704/ 246 (2 OR, 0 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/ DECOMPRESSION
 704/ 200 SPEECH SIGNAL PROCESSING
 704/ 231 ...Recognition
 704/ 246 ...Voice recognition

2 704/ 222 (0 OR, 2 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/ DECOMPRESSION
 704/ 200 SPEECH SIGNAL PROCESSING
 704/ 201 ...For storage or transmission
 704/ 221 ...Pattern matching vocoders
 704/ 222Vector quantization

2 704/ E17.005 (0 OR, 2 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/ DECOMPRESSION
 704/ E17.001 SPEAKER IDENTIFICATION OR VERIFICATION (EPO)
 704/ E17.004 ...Details (EPO)
 704/ E17.005 ...Preprocessing operations, e.g., segment selection, etc.,
 pattern representation or modeling, e.g., based on linear discriminant analysis
 (LDA), principal components, etc.; feature selection or extraction (EPO)

2 84/ 627 (0 OR, 2 XR)
 Class 84 MUSIC
 84/ 1 INSTRUMENTS
 84/ 600 ...Electrical musical tone generation
 84/ 601 ...Data storage

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84/ 602Digital memory circuit (e.g., RAM, ROM, etc.)

84/ 626Expression or special effects (e.g., force or velocity
responsive, etc.)

84/ 627Envelope shaping (i.e., attack, decay, sustain, or
release)

2 84/ DI G 5 (0 OR, 2 XR)
Class 84 MUSIC
84/ DI G 5 .Chiff

2 704/ 219 (1 OR, 1 XR)
Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/ DECOMPRESSION
704/ 200 .SPEECH SIGNAL PROCESSING
704/ 201 ..For storage or transmission
704/ 219 ...Linear prediction

2 704/ 223 (0 OR, 2 XR)
Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/ DECOMPRESSION
704/ 200 .SPEECH SIGNAL PROCESSING
704/ 201 ..For storage or transmission
704/ 221 ...Pattern matching vocoders
704/ 223Excitation patterns

2 704/ 226 (1 OR, 1 XR)
Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/ DECOMPRESSION
704/ 200 .SPEECH SIGNAL PROCESSING
704/ 201 ..For storage or transmission
704/ 226 ...Noise

2 704/ E19.024 (0 OR, 2 XR)
Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/ DECOMPRESSION
704/ E19.001 .SPEECH OR AUDIO SIGNAL ANALYSIS- SYNTHESIS TECHNIQUES FOR
REDUNDANCY REDUCTION, E.G., IN VOCODERS, ETC.; CODING OR DECODING OF SPEECH OR AUDIO
SIGNALS; COMPRESSION OR EXPANSION OF SPEECH OR AUDIO SIGNALS, E.G., SOURCE-FILTER
MODELS, PSYCHOACOUSTIC ANALYSIS, ETC. (EPO)
704/ E19.023 ..Using predictive techniques; codecs based on source-filter
modelization (EPO)
704/ E19.024 ...Determination or coding of the spectral characteristics,
e.g., of the short-term prediction coefficients, etc. (EPO)

2 704/ 264 (1 OR, 1 XR)
Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/ DECOMPRESSION
704/ 200 .SPEECH SIGNAL PROCESSING
704/ 258 ..Synthesis
704/ 264 ...Excitation

2 381/ 94.3 (0 OR, 2 XR)
Class 381 ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
381/ 94.1 .NOISE OR DISTORTION SUPPRESSION
381/ 94.2 ..Spectral adjustment
381/ 94.3 ...In multiple frequency bands

2 704/ E21.004 (0 OR, 2 XR)
Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/ DECOMPRESSION
704/ E21.001 .MODIFICATION OF AT LEAST ONE CHARACTERISTIC OF SPEECH WAVES
(EPO)
704/ E21.002 ..Speech enhancement, e.g., noise reduction, echo

cancellation, etc. (EPO)

704/E21.003 ... Applications (EPO)

704/E21.004 Speech corrupted by noise (EPO)

2 379/386 (0 OR, 2 XR)

Class 379 TELEPHONIC COMMUNICATIONS

379/350 . SUPERVISORY OR CONTROL LINE SIGNALING

379/386 .. Signal receiver (e.g., tone decoder)

2 704/231 (0 OR, 2 XR)

Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION

704/200 . SPEECH SIGNAL PROCESSING

704/231 .. Recognition

2 381/99 (1 OR, 1 XR)

Class 381 ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES

381/98 . INCLUDING FREQUENCY CONTROL

381/99 .. Having crossover filter

2 381/120 (1 OR, 1 XR)

Class 381 ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES

381/120 . WITH AMPLIFIER

2 381/77 (0 OR, 2 XR)

Class 381 ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES

381/77 . ONE-WAY AUDIO SIGNAL PROGRAM DISTRIBUTION

2 704/E19.003 (0 OR, 2 XR)

Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION

704/E19.001 . SPEECH OR AUDIO SIGNAL ANALYSIS-SYNTHESIS TECHNIQUES FOR
REDUNDANCY REDUCTION, E.G., IN VOCODERS, ETC.; CODING OR DECODING OF SPEECH OR AUDIO
SIGNALS; COMPRESSION OR EXPANSION OF SPEECH OR AUDIO SIGNALS, E.G., SOURCE-FILTER
MODELS, PSYCHOACOUSTIC ANALYSIS, ETC. (EPO)

704/E19.003 .. Correction of errors induced by the transmission channel,
if related to the coding (EPO)